

P#18



1642

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1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/581,651A

DATE: 04/12/2002

TIME: 14:21:03

Input Set : A:\350013-72.txt

Output Set: N:\CRF3\04122002\I581651A.raw

4 <110> APPLICANT: Schor, Seth Laurence
 5 Schor, Ana Maria
 7 <120> TITLE OF INVENTION: POLYPEPTIDES, POLYNUCLEOTIDES AND USES
 8 THEREOF
 10 <130> FILE REFERENCE: 350013-72
 12 <140> CURRENT APPLICATION NUMBER: 09/581,651A
 13 <141> CURRENT FILING DATE: 2000-10-10
 15 <160> NUMBER OF SEQ ID NOS: 15
 17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 660
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Human
 24 <400> SEQUENCE: 1
 25 Asn Leu Val Ala Thr Cys Leu Pro Val Arg Ala Ser Leu Pro His Arg
 26 1 5 10 15
 27 Leu Asn Met Leu Arg Gly Pro Gly Pro Gly Leu Leu Leu Ala Val
 28 20 25 30
 29 Gln Cys Leu Gly Thr Ala Val Pro Ser Thr Gly Ala Ser Lys Ser Lys
 30 35 40 45
 31 Arg Gln Ala Gln Gln Met Val Gln Pro Gln Ser Pro Val Ala Val Ser
 32 50 55 60
 33 Gln Ser Lys Pro Gly Cys Tyr Asp Asn Gly Lys His Tyr Gln Ile Asn
 34 65 70 75 80
 35 Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Ala Leu Val Cys Thr Cys
 36 85 90 95
 37 Tyr Gly Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu
 38 100 105 110
 39 Glu Thr Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp
 40 115 120 125
 41 Thr Tyr Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys Thr Cys Ile
 42 130 135 140
 43 Gly Ala Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn Arg Cys His
 44 145 150 155 160
 45 Glu Gly Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg Arg Pro His
 46 165 170 175
 47 Glu Thr Gly Gly Tyr Met Leu Glu Cys Val Cys Leu Gly Asn Gly Lys
 48 180 185 190
 49 Gly Glu Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe Asp His Ala
 50 195 200 205
 51 Ala Gly Thr Ser Tyr Val Val Gly Glu Thr Trp Glu Lys Pro Tyr Gln
 52 210 215 220
 53 Gly Trp Met Met Val Asp Cys Thr Cys' Leu Gly Glu Gly Ser Gly Arg

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54	225	230	235	240															
55	Ile	Thr	Cys	Thr	Ser	Arg	Asn	Arg	Cys	Asn	Asp	Gln	Asp	Thr	Arg	Thr			
56																245	250	255	
57	Ser	Tyr	Arg	Ile	Gly	Asp	Thr	Trp	Ser	Lys	Lys	Asp	Asn	Arg	Gly	Asn			
58																260	265	270	
59	Leu	Leu	Gln	Cys	Ile	Cys	Thr	Gly	Asn	Gly	Arg	Gly	Glu	Trp	Lys	Cys			
60																275	280	285	
61	Glu	Arg	His	Thr	Ser	Val	Gln	Thr	Thr	Ser	Ser	Gly	Ser	Gly	Pro	Phe			
62																290	295	300	
63	Thr	Asp	Val	Arg	Ala	Ala	Val	Tyr	Gln	Pro	Gln	Pro	His	Pro	Gln	Pro			
64																305	310	315	320
65	Pro	Pro	Tyr	Gly	His	Cys	Val	Thr	Asp	Ser	Gly	Val	Val	Tyr	Ser	Val			
66																325	330	335	
67	Gly	Met	Gln	Trp	Leu	Lys	Thr	Gln	Gly	Asn	Lys	Gln	Met	Leu	Cys	Thr			
68																340	345	350	
69	Cys	Leu	Gly	Asn	Gly	Val	Ser	Cys	Gln	Glu	Thr	Ala	Val	Thr	Gln	Thr			
70																355	360	365	
71	Tyr	Gly	Gly	Asn	Ser	Asn	Gly	Glu	Pro	Cys	Val	Leu	Pro	Phe	Thr	Tyr			
72																370	375	380	
73	Asn	Asp	Arg	Thr	Asp	Ser	Thr	Thr	Ser	Asn	Tyr	Glu	Gln	Asp	Gln	Lys			
74																385	390	395	400
75	Tyr	Ser	Phe	Cys	Thr	Asp	His	Thr	Val	Leu	Val	Gln	Thr	Arg	Gly	Gly			
76																405	410	415	
77	Asn	Ser	Asn	Gly	Ala	Leu	Cys	His	Phe	Pro	Phe	Leu	Tyr	Asn	Asn	His			
78																420	425	430	
79	Asn	Tyr	Thr	Asp	Cys	Thr	Ser	Glu	Gly	Arg	Arg	Asp	Asn	Met	Lys	Trp			
80																435	440	445	
81	Cys	Gly	Thr	Thr	Gln	Asn	Tyr	Asp	Ala	Asp	Gln	Lys	Phe	Gly	Phe	Cys			
82																450	455	460	
83	Pro	Met	Ala	Ala	His	Glu	Glu	Ile	Cys	Thr	Thr	Asn	Glu	Gly	Val	Met			
84																465	470	475	480
85	Tyr	Arg	Ile	Gly	Asp	Gln	Trp	Asp	Lys	Gln	His	Asp	Met	Gly	His	Met			
86																485	490	495	
87	Met	Arg	Cys	Thr	Cys	Val	Gly	Asn	Gly	Arg	Gly	Glu	Trp	Thr	Cys	Ile			
88																500	505	510	
89	Ala	Tyr	Ser	Gln	Leu	Arg	Asp	Gln	Cys	Ile	Val	Asp	Asp	Ile	Thr	Tyr			
90																515	520	525	
91	Asn	Val	Asn	Asp	Thr	Phe	His	Lys	Arg	His	Glu	Glu	Gly	His	Met	Leu			
92																530	535	540	
93	Asn	Cys	Thr	Cys	Phe	Gly	Gln	Gly	Arg	Gly	Arg	Trp	Lys	Cys	Asp	Pro			
94																545	550	555	560
95	Val	Asp	Gln	Cys	Gln	Asp	Ser	Glu	Thr	Gly	Thr	Phe	Tyr	Gln	Ile	Gly			
96																565	570	575	
97	Asp	Ser	Trp	Glu	Lys	Tyr	Val	His	Gly	Val	Arg	Tyr	Gln	Cys	Tyr	Cys			
98																580	585	590	
99	Tyr	Gly	Arg	Gly	Ile	Gly	Glu	Trp	His	Cys	Gln	Pro	Leu	Gln	Thr	Tyr			
100																595	600	605	
101	Pro	Ser	Ser	Ser	Gly	Pro	Val	Glu	Val	Phe	Ile	Thr	Glu	Thr	Pro	Ser			
102																610	615	620	

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103 Gln Pro Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser His
104 625 630 635 640
105 Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Val Ser Ile Pro Pro Arg
106 645 650 655
107 Asn Leu Gly Tyr
108 660
110 <210> SEQ ID NO: 2
111 <211> LENGTH: 2147
112 <212> TYPE: DNA
113 <213> ORGANISM: Human
115 <400> SEQUENCE: 2
116 caaaacttggt ggcaacttgc ctccccgtgc gggcgctct ccccccaccgt ctcAACATGC 60
117 ttaggggtcc ggggccccggg ctgctgtgc tggccgtcca gtgcctgggg acagcggtgc 120
118 cctccacggg agcctcgaag agcaagagggc aggctcagca aatgggtcag ccccaagtccc 180
119 cggtggctgt cagtcaaagc aagcccggtt gttatgacaa tggaaaacac tatcagataa 240
120 atcaacagtg ggagcggacc taccttagca atgcgttggg ttgtacttgc tatggaggaa 300
121 gccgagggtt taactgcgag agtaaacctg aagctgaaga gacttgcgtt gacaagtaca 360
122 ctgggaacac ttaccgagtg ggtgacactt atgagcgtcc taaagactcc atgatctggg 420
123 actgtacctg catcggggct gggcgaggga gaataagctg taccatcgca aaccgctgccc 480
124 atgaagggggg tcagtcctac aagattggtg acacctggag gagaccacat gagactggtg 540
125 gttacatgtt agagtgtgtg tgcgttgcgtt atgaaaagg agaatggacc tgcaagccca 600
126 tagctgagaa gtgtttgtat catgctgtg ggacttccta tgcgttgcgtt gaaacgtggg 660
127 agaagcccta ccaaggctgg atgatggtag attgtacttg cctggggaa ggcagcggac 720
128 gcatcaactt cacttctaga aatagatgca acgatcggaa cacaaggaca tcctatagaa 780
129 ttggagacac ctggagcaag aaggataatc gagaaacct gtcgtgcgtt atctgcacac 840
130 gcaacggccg aggagagtgg aagtgtgaga ggcacaccc tgcgttgcgtt acatcgagcg 900
131 gatctggccc cttcaccgat gttcgtgcgtt ctgtttacca accgcggcc tccccccggc 960
132 ctcctcccta tggccactgt gtcacagaca gtgggtgtgtt ctactctgtg gggatgcgtt 1020
133 ggctgaagac acaaggaaat aagcaatgc tttgcacgtg cctggcaac ggagtgcgtt 1080
134 gccaagagac agctgttaacc cagacttacg gtggcaactc aaatggagag ccattgtgtct 1140
135 taccattcac ctacaacgac aggacggaca gcacaacttc gaattatgag caggaccaga 1200
136 aatactctt ctgcacagac cacactttt tgggtcagac tcgaggagga aattccaaatg 1260
137 gtgccttggc ccacttcccc ttccatataca acaaccacaa ttacactgtat tgcacttctg 1320
138 agggcagaag agacaacatg aagtgggtgtg ggaccacaca gaactatgtat gccgaccaga 1380
139 agtttgggtt ctgccccatg gctgccacg agggaaatctg cacaaccaat gaaggggtca 1440
140 tgtaccgcatt tggagatcatg tgggataatc agcatgacat ggttcacatg atgaggtgtca 1500
141 cgtgtgttgg gaatggtcgt ggggaatgaa catcattgc ctactcgcgtt cttcgagatc 1560
142 agtgcattgt tgatgacatc acttacaatg tgaacgacac attccacaatg cgtcatgaa 1620
143 aggggcacat gctgaactgt acatgttcgt gtcagggtcg gggcaggtgg aagtgtgtatc 1680
144 ccgtcgacca atgcaggat tcagagactg ggacgtttt tcaaattggaa gattcatggg 1740
145 agaagtatgt gcatgggtgc agataccatg gctactgtat tggccgtggc atggggaggt 1800
146 ggcattgcca acctttacag acctatccaa gctcaagtgg tccgtcgaa gtatttatca 1860
147 ctgagactcc gagtcagccc aactccacc ccatccagtg gaatgcacca cagccatctc 1920
148 acattccaa gtacattctc aggtggagac ctgtgagttt cccaccaga aaccttggat 1980
149 actgagtctc ctaatcttta caattctgtat ggttctttt tttcccagct tttgagccaa 2040
150 caactctgtat taacttattcc tatgcattt actatatttgc tttagtgcac aaacaatatg 2100
151 tggtaatattt aattgacttg tagactggaa aaaaaaaaaa aaaaaaaaaa 2147
153 <210> SEQ ID NO: 3
154 <211> LENGTH: 20

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155 <212> TYPE: PRT
156 <213> ORGANISM: Human
158 <400> SEQUENCE: 3
159 Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Val Ser Ile Pro Pro Arg
160 1 5 10 15
161 Asn Leu Gly Tyr
162 20
164 <210> SEQ ID NO: 4
165 <211> LENGTH: 21
166 <212> TYPE: PRT
167 <213> ORGANISM: Human
169 <400> SEQUENCE: 4
170 Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Ala Leu Val Cys Thr Cys
171 1 5 10 15
172 Tyr Gly Gly Ser Arg
173 20
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 23
177 <212> TYPE: PRT
178 <213> ORGANISM: Human
180 <400> SEQUENCE: 5
181 Pro Cys Val Leu Pro Phe Thr Tyr Asn Asp Arg Thr Asp Ser Thr Thr
182 1 5 10 15
183 Ser Asn Tyr Glu Gln Asp Gln
184 20
186 <210> SEQ ID NO: 6
187 <211> LENGTH: 20
188 <212> TYPE: PRT
189 <213> ORGANISM: Human
191 <400> SEQUENCE: 6
192 Thr Asp His Thr Val Leu Val Gln Thr Arg Gly Gly Asn Ser Asn Gly
193 1 5 10 15
194 Ala Leu Cys His
195 20
197 <210> SEQ ID NO: 7
198 <211> LENGTH: 21
199 <212> TYPE: PRT
200 <213> ORGANISM: Human
202 <400> SEQUENCE: 7
203 Val Gly Asn Gly Arg Gly Glu Trp Thr Cys Ile Ala Tyr Ser Gln Leu
204 1 5 10 15
205 Arg Asp Gln Cys Ile
206 20
208 <210> SEQ ID NO: 8
209 <211> LENGTH: 21
210 <212> TYPE: PRT
211 <213> ORGANISM: Human
213 <400> SEQUENCE: 8
214 Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys Thr Cys

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215 1 5 10 15
216 Tyr Gly Gly Ser Arg
217 20
219 <210> SEQ ID NO: 9
220 <211> LENGTH: 39
221 <212> TYPE: PRT
222 <213> ORGANISM: Human
224 <400> SEQUENCE: 9
225 Glu Pro Cys Val Leu Pro Phe Thr Tyr Asn Gly Arg Thr Phe Tyr Ser
226 1 5 10 15
227 Cys Thr Thr Glu Gly Arg Gln Asp Gly His Leu Trp Cys Ser Thr Thr
228 20 25 30
229 Ser Asn Tyr Glu Gln Asp Gln
230 35
232 <210> SEQ ID NO: 10
233 <211> LENGTH: 21
234 <212> TYPE: PRT
235 <213> ORGANISM: Human
237 <400> SEQUENCE: 10
238 Cys Thr Asp His Thr Val Leu Val Gln Thr Gln Gly Gly Asn Ser Asn
239 1 5 10 15
240 Gly Ala Leu Cys His
241 20
243 <210> SEQ ID NO: 11
244 <211> LENGTH: 21
245 <212> TYPE: PRT
246 <213> ORGANISM: Human
248 <400> SEQUENCE: 11
249 Val Gly Asn Gly Arg Gly Glu Trp Thr Cys Tyr Ala Tyr Ser Gln Leu
250 1 5 10 15
251 Arg Asp Gln Cys Ile
252 20
254 <210> SEQ ID NO: 12
255 <211> LENGTH: 20
256 <212> TYPE: PRT
257 <213> ORGANISM: Human
259 <400> SEQUENCE: 12
260 Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Lys Asn Ser Val Gly Arg
261 1 5 10 15
262 Trp Lys Glu Ala
263 20
265 <210> SEQ ID NO: 13
266 <211> LENGTH: 11
267 <212> TYPE: PRT
268 <213> ORGANISM: Human
270 <400> SEQUENCE: 13
271 Thr Ala Ser Gly Val Ala Glu Thr Thr Asn Cys
272 1 5 10
274 <210> SEQ ID NO: 14

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/581,651A

DATE: 04/12/2002

TIME: 14:21:04

Input Set : A:\350013-72.txt

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